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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Risk analysis for pressure vessel with external corrosion using RBI method based on API 581

Jumlah Penulis : 4 Orang

Status Pengusul : Penulis ke-2

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Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	3,00	3,00	3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00	8,00	8,50
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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00	8,50	8,75
Total = (100%)	29,50	28,00	28,75
Nilai Pengusul = (40% x 28,75)/3 = 3,83			

Semarang, 14 Mei 2019

Reviewer 2

Rusnaldy, S.T., M.T., Ph.D.
 NIP. 197005201999031002
 Unit Kerja : T. Mesin FT UNDIP

Reviewer 1

Dr. Agus Suprihanto, S.T., M.T.
 NIP. 197108181997021001
 Unit Kerja : Teknik Mesin FT UNDIP

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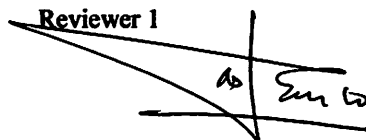
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	Internasional <input type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3,00		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		9,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,50
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		9,00
Total = (100%)	30,00		29,50
Nilai Pengusul = (40% x 29,50)/3 = 3,93			

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Semarang, 14 Mei 2019

Reviewer 1



Dr. Agus Suprihanto, S.T, M.T.
 NIP. 197108181997021001
 Unit kerja : Teknik Mesin FT UNDIP

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,50
Total = (100%)	30,00		28,00
Nilai Pengusul = (40% x 28,00)/3 = 3,73			

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- Kesesuaian dan kelengkapan unsur isi paper:**
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- Ruang lingkup dan kedalaman pembahasan:**
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Semarang, 14 Mei 2019

Reviewer 2

Rusnaldy, S.T., M.T., Ph.D.
NIP. 197005201999031002
Unit kerja : Teknik Mesin FT UNDIP

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AIP Conference Proceedings
Volume 1725, 19 April 2016, Article number 020052
3rd International Conference on Advanced Materials Science and Technology, ICAMST 2015;
Grasia HotelSemarang; Indonesia; 6 October 2015 through 7 October 2015; Code 121530

Rlsk analysis for pressure vessel with external corrosion using RBI method based on API 581 (Conference Paper)

Naubnome, V.^a , Haryadi, G.D.^a , Ismail, R.^a , Kim, S.J.^b

^aDepartment of Mechanical Engineering, Diponegoro University, Semarang, Indonesia
^bDepartment of Mechanical and Automotive Engineering, Pukyong National University, Jl. Prof. Sudarto, Semarang, Jawa Tengah, 50275, Indonesia

Abstract

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Internal corrosion and external are the one major cause of accidents in liquid and natural gas in a pressure vessel. To lessen the vessel risk level, many companies have adopted and applied risk based inspection (RBI) methodology to risk reduction equipment, This study applied RBI methodology to optimize the inspection planing of the pressure vessel in power plant unit Jawa-Bali. In API 581, the risk situation for each type of equipment was classified into four levels: low risk level, medium-risk level, medium-high-risk level, and high level. This is expressed as a risk matrix. In this paper, semi-quantitative analysis method of risk-based inspection (RBI) was carried out for reducing the failure level of risk and optimized inspection plans, risk analysis of equipment failures resulting from corrosion need to be implemented. The result RBI analysis showed that pressure vessel has a medium high risk level and medium level. Failure mechanisms that occur in the pressure vessel is general thinning. © 2016 Author(s).

SciVal Topic Prominence ⓘ

Topic: Inspection | Risks | Inspection RBI

Prominence percentile: 75.551 ⓘ

ISSN: 0094243X
ISBN: 978-073541372-6
Source Type: Conference Proceeding
Original language: English
DOI: 10.1063/1.4945506
Document Type: Conference Paper
Volume Editors: Suryana R.,Khairurrijal,Susanto H.,Markusdiantoro,Sutikno,Triyana K.
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Implementing risk-based inspection approach: Is it beneficial for pressure equipment in Malaysia industries?
Mohamed, R. , Che Hassan, C.R. , Hamid, M.D.
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- Current status of developing RBI guideline in Japan
Sakai, S.
(2006) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*

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 (2006) *Journal of Pressure Vessel Technology, Transactions of the ASME*, 128 (1), pp. 109-115. Cited 5 times.
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- 3 Reza, S.M.
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 Considerations for in-service inspection on pressure vessel of 200 MW nuclear heating reactor
 (2000) *Nuclear Engineering and Design*, 202 (1), pp. 11-16. Cited 3 times.
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Preface: 3rd International Conference on Advanced Materials Science and Technology (ICAMST 2015)

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In this event, the conference was successfully carried out. More than 200 pre-registered authors submitted their works in the ICAMST 2015. The 156 presented papers preserved the high pledge recommended by the written abstracts and the programme was chaired in a professional and efficient approach by the session chairmen who were selected for their international in the subject. The selected papers amount of 106 are reviewed by reviewers from the whole world and edited by the reputable professors in the Universities of Indonesia Republic's Government and doctors inline with their expertises.

The committee has accepted fullpapers from Netherland, Egypt, USA, Korea, Japan, Malaysia, and Indonesia. The focus of this conference is to support Materials Research. Material Research Innovations covers all areas of materials research with a particular interest in synthesis, processing, and properties from the nanoscale to the microscale to the bulk. Coverage includes all classes of material – ceramics, metals, and polymers; semiconductors and other functional materials; organic and inorganic materials – alone or in combination as composites. Innovation in composition and processing to impart special properties to bulk materials and coatings, and for innovative applications in technology, represents a strong focus.

Organizing an international conference involves great energy to finish complex and substantial detail therefore we would like to express my gratitude to all members of ICAMST 2015 organizing committee for their sincere cooperation to hold this event. ICAMST 2015 would not be possible without our keynote speakers, presenters, reviewers, all participants and Semarang State University. We would like to thank for all support.

Prof. Dr. Sutikno, S.T., M.T.

Chairman of ICAMST 2015

<http://www.icamst.org>

Email:

smadnasri@yahoo.com

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Conference date: 6–7 October 2015

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Editors: , , Heru Susanto, Risa Suryana, Kuwat Triyana and

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and Ca on corrosion resistance of plasma anodized Mg alloys

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Iwan Budiwan Anwar, Eko Saputra, Rifky Ismail, J. Jamari and Emile van der Heide

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Harlina Ardiyanti, Edi Suharyadi, Takeshi Kato and Satoshi Iwata

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2077 (2019) ✓

2076 (2019) ✓

2074 (2019) ✓

2073 (2019) ✓

2070 (2019) ✓

bovine bone mandible waste (BHAp) doped with 10 wt % amorphous SiO₂ from rice husk by solid state reaction

Dwi Asmi, Ahmad Sulaiman, Irene Lucky Oktavia, Muhammad Badaruddin and Anne Zulfia

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Microstructure and oxidation behavior of high strength steel AISI 410 implanted with nitrogen ion

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Effect composition of SiC_p and TiB to the mechanical properties of composite Al7Si-Mg-SiC_p by the method of

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<https://doi.org/10.1063/1.4945466>

SHOW ABSTRACT

Full . April 2016

Light induced dielectric constant of Alumina doped lead silicate glass based on silica sands

Markus Diantoro, Desi Ayu Natalia, Nandang Mufti and Arif Hidayat

2056 (2018) ✓

AIP Conference Proceedings **1725**, 020013 (2016);
<https://doi.org/10.1063/1.4945467>

2050 (2018) ✓

SHOW ABSTRACT

2053 (2018) ✓

2049 (2018) ✓

Full . April 2016

2051 (2018) ✓

**Preparation of graphene
oxide/poly (3,4-
ethylenedioxytriophene): Poly
(styrene sulfonate)
(PEDOT:PSS) electrospun
nanofibers**

2048 (2018) ✓

2045 (2018) ✓

2046 (2018) ✓

Vita Efelina, Eri Widiyanto, Dadi Rusdiana, A. A.
Nugroho, Ahmad Kusumaatmaja, Kuwat Triyana and
Iman Santoso

2040 (2018) ✓

AIP Conference Proceedings **1725**, 020014 (2016);
<https://doi.org/10.1063/1.4945468>

2031 (2018) ✓

2047 (2018) ✓

SHOW ABSTRACT

2039 (2018) ✓

2043 (2018) ✓

Full . April 2016

2044 (2018) ✓

**Measurements of the salt-
removal of NaCl, KCl and MgCl
using a carbon electrode
prepared with freezing
thawing method in capacitive
deionization**

2037 (2018) ✓

2041 (2018) ✓

2038 (2018) ✓

Endarko, Intan Permata Sari and Iim Fatimah

2035 (2018) ▼

2036 (2018) ▼

2030 (2018) ▼

2042 (2018) ▼

2033 (2018) ▼

2024 (2018) ▼

2022 (2018) ▼

2028 (2018) ▼

2027 (2018) ▼

2034 (2018) ▼

2029 (2018) ▼

2026 (2018) ▼

2025 (2018) ▼

2032 (2018) ▼

2023 (2018) ▼

2021 (2018) ▼

2019 (2018) ▼

AIP Conference Proceedings **1725**, 020015 (2016);
<https://doi.org/10.1063/1.4945469>

SHOW ABSTRACT

Full . April 2016

The quality of Muntilan sand (Central Java) as construction material, a longitudinal study

Bambang Endroyo

AIP Conference Proceedings **1725**, 020016 (2016);
<https://doi.org/10.1063/1.4945470>

SHOW ABSTRACT

Full . April 2016

Interfacial reactions and wetting in Al-Mg sintered by powder metallurgy process

Heny Faisal, Darminto, Triwikantoro and M. Zainuri

AIP Conference Proceedings **1725**, 020017 (2016);
<https://doi.org/10.1063/1.4945471>

SHOW ABSTRACT

Full . April 2016

2020 (2018) ✓

2013 (2018) ✓

2017 (2018) ✓

2018 (2018) ✓

2016 (2018) ✓

2015 (2018) ✓

2014 (2018) ✓

2011 (2018) ✓

2012 (2018) ✓

2010 (2018) ✓

2008 (2018) ✓

2009 (2018) ✓

2007 (2018) ✓

2006 (2018) ✓

2004 (2018) ✓

2005 (2018) ✓

2001 (2018) ✓

Modelling and simulation of parallel triangular triple quantum dots (TTQD) by using SIMON 2.0

Maulana Yusuf Fathany, Syifaul Fuada, Braham Lawas Lawu and Muhammad Amin Sulthoni

AIP Conference Proceedings **1725**, 020018 (2016);
<https://doi.org/10.1063/1.4945472>

SHOW ABSTRACT

Full . April 2016

Rotary forcespun styrofoam fibers as a soilless growing medium

Ahmad Fauzi, Dhewa Edikresnha, Muhammad Miftahul Munir and Khairurrijal

AIP Conference Proceedings **1725**, 020019 (2016);
<https://doi.org/10.1063/1.4945473>

SHOW ABSTRACT

Full . April 2016

Improvement of catalytic activity of Fe₃O₄/CuO/TiO₂ nanocomposites using the combination of ultrasonic and UV light irradiation for

2002 (2018) ✓

1999 (2018) ✓

2003 (2018) ✓

2000 (2018) ✓

1997 (2018) ✓

1998 (2018) ✓

1992 (2018) ✓

1996 (2018) ✓

1994 (2018) ✓

1993 (2018) ✓

1991 (2018) ✓

1982 (2018) ✓

1995 (2018) ✓

1984 (2018) ✓

1986 (2018) ✓

1989 (2018) ✓

1990 (2018) ✓

degradation of organic dyes

Malleo Fauzian, Ardiansyah Taufik and Rosari Saleh

AIP Conference Proceedings **1725**, 020020 (2016);
<https://doi.org/10.1063/1.4945474>

SHOW ABSTRACT

Full . April 2016

Synthesis and visible light photocatalytic properties of iron oxide-silver orthophosphate composites

Febiyanto, Irma Vania Eliani, Anung Riapanitra and U. Sulaeman

AIP Conference Proceedings **1725**, 020021 (2016);
<https://doi.org/10.1063/1.4945475>

SHOW ABSTRACT

Full . April 2016

Structural modification of strontium hexaferrite through destruction process and ionic substitution

Karina Nur Fitriana, Mas Ayu Elita Hafizah and Azwar Manaf

AIP Conference Proceedings **1725**, 020022 (2016);

1988 (2018) ▼

<https://doi.org/10.1063/1.4945476>

1987 (2018) ▼

SHOW ABSTRACT

1985 (2018) ▼

1983 (2018) ▼

Full . April 2016

1980 (2018) ▼

**Effect of Mn and Ti
substitution on the reflection
loss characteristic of
 $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{Fe}_{11-z}\text{MnTi}_z\text{O}_{19}$ ($z = 0,$
 $1, 2$ and 3)**

1981 (2018) ▼

1978 (2018) ▼

Y. E. Gunanto, L. Cahyadi and W. Ari Adi

1979 (2018) ▼

AIP Conference Proceedings **1725**, 020023 (2016);<https://doi.org/10.1063/1.4945477>

1974 (2018) ▼

SHOW ABSTRACT

1977 (2018) ▼

1976 (2018) ▼

Full . April 2016

1975 (2018) ▼

**Composite Nafion 117-TMSP
membrane for Fe-Cr redox
flow battery applications**

1971 (2018) ▼

1972 (2018) ▼

Haryadi, Y. B. Gunawan, S. P. Mursid and D. Harjogi

1973 (2018) ▼

AIP Conference Proceedings **1725**, 020024 (2016);<https://doi.org/10.1063/1.4945478>

1969 (2018) ▼

SHOW ABSTRACT

1965 (2018) ▼

1970 (2018) ✓

1968 (2018) ✓

1967 (2018) ✓

1966 (2018) ✓

1964 (2018) ✓

1961 (2018) ✓

1963 (2018) ✓

1958 (2018) ✓

1953 (2018) ✓

1962 (2018) ✓

1960 (2018) ✓

1959 (2018) ✓

1956 (2018) ✓

1947 (2018) ✓

1946 (2018) ✓

1952 (2018) ✓

1949 (2018) ✓

Full . April 2016

Compared production behavior of borax and unborax premixed SiC reinforcement Al7Si-Mg-TiB alloys composites with semi-solid stir casting method

M. B. Haryono, Sulardjaka and Sri Nugroho

AIP Conference Proceedings **1725**, 020025 (2016);
<https://doi.org/10.1063/1.4945479>

SHOW ABSTRACT

Full . April 2016

Manufacture of Bi, Pb-Sr-Ca-Cu-O pellet disc using wet method

Hendrik, Pius Sebleku, Sigit Dwi Yudanto, Bintoro
 Siswayanti, Andika Widya Pramono and Agung
 Imaduddin

AIP Conference Proceedings **1725**, 020026 (2016);
<https://doi.org/10.1063/1.4945480>

SHOW ABSTRACT

Full . April 2016

Fe₃O₄/CuO/ZnO/Nano

1943 (2018) ✓

1957 (2018) ✓

1955 (2018) ✓

1950 (2018) ✓

1951 (2018) ✓

1954 (2018) ✓

1942 (2018) ✓

1948 (2018) ✓

1940 (2018) ✓

1945 (2018) ✓

1944 (2018) ✓

1941 (2018) ✓

1939 (2018) ✓

1938 (2018) ✓

1937 (2018) ✓

1936 (2018) ✓

1935 (2018) ✓

graphene platelets (Fe₃O₄/CuO/ZnO/NGP) composites prepared by sol- gel method with enhanced sonocatalytic activity for the removal of dye

Tju Hendry, Ardiansyah Taufik and Rosari Saleh

AIP Conference Proceedings **1725**, 020027 (2016);
<https://doi.org/10.1063/1.4945481>

SHOW ABSTRACT

Full . April 2016

Stress investigation on the rolling tires across the speed bump using finite element method

Royan Hidayat, Sarwo Edy Pranoto, Mohammad
Tauviquirrahman and Athanasius P. BayusenoAIP Conference Proceedings **1725**, 020028 (2016);
<https://doi.org/10.1063/1.4945482>

SHOW ABSTRACT

Full . April 2016

Influence of refraction index strength on the light

1932 (2018) ✓

1933 (2018) ✓

1931 (2018) ✓

1927 (2018) ✓

1934 (2018) ✓

1930 (2018) ✓

1928 (2018) ✓

1929 (2018) ✓

1924 (2018) ✓

1926 (2018) ✓

1920 (2018) ✓

1925 (2018) ✓

1923 (2018) ✓

1922 (2018) ✓

1921 (2018) ✓

1918 (2017) ✓

1919 (2017) ✓

propagation in dielectrics material with periodic refraction index

Arif Hidayat, Eny Latifah, Diana Kurniati and Hari Wisodo

AIP Conference Proceedings **1725**, 020029 (2016);
<https://doi.org/10.1063/1.4945483>

SHOW ABSTRACT

Full . April 2016

Study the effect of surface texturing on the stress distribution of UHMWPE as a bearing material during rolling motion

J. Jamari, R. Ismail, I. B. Anwar, E. Saputra, M. Tauviquirrahman and E. V. D. Heide

AIP Conference Proceedings **1725**, 020030 (2016);
<https://doi.org/10.1063/1.4945484>

SHOW ABSTRACT

Full . April 2016

Chloride ion addition for controlling shapes and properties of silver nanorods capped by polyvinyl alcohol

1917 (2017) ▼

1914 (2017) ▼

1915 (2017) ▼

1916 (2017) ▼

1912 (2017) ▼

1910 (2017) ▼

1913 (2017) ▼

1911 (2017) ▼

1901 (2017) ▼

1909 (2017) ▼

1908 (2017) ▼

1906 (2017) ▼

1904 (2017) ▼

1905 (2017) ▼

1898 (2017) ▼

1907 (2017) ▼

1903 (2017) ▼

synthesized using polyol method

Junaidi, Muhammad Yunus, Kuwat Triyana, Harsojo and Edi Suharyadi

AIP Conference Proceedings **1725**, 020031 (2016);
<https://doi.org/10.1063/1.4945485>

SHOW ABSTRACT

Full . April 2016

The synthesis and characterization of Mg-Zn-Ca alloy by powder metallurgy process

Dhyah Annur, Franciska P. L., Aprilia Erryani, M. Ikhlasul Amal, Lyandra S. Sitorus and Ika Kartika

AIP Conference Proceedings **1725**, 020032 (2016);
<https://doi.org/10.1063/1.4945486>

SHOW ABSTRACT

Full . April 2016

The tensile strength properties of CFRPs and GRRPs for Unnes electric car body material

Muhammad Khumaedi, Wirawan Sumbodo and Rahmat Doni Widodo

1902 (2017) ✓

1900 (2017) ✓

1899 (2017) ✓

1893 (2017) ✓

1897 (2017) ✓

1896 (2017) ✓

1894 (2017) ✓

1892 (2017) ✓

1895 (2017) ✓

1890 (2017) ✓

1891 (2017) ✓

1887 (2017) ✓

1882 (2017) ✓

1886 (2017) ✓

1885 (2017) ✓

1889 (2017) ✓

1888 (2017) ✓

AIP Conference Proceedings **1725**, 020033 (2016);
<https://doi.org/10.1063/1.4945487>

SHOW ABSTRACT

Full . April 2016

Radial forces analysis and rotational speed test of radial permanent magnetic bearing for horizontal axis wind turbine applications

Kriswanto and Jamari

AIP Conference Proceedings **1725**, 020034 (2016);
<https://doi.org/10.1063/1.4945488>

SHOW ABSTRACT

Full . April 2016

Polarity enhancement in high oriented ZnO films on Si (100) substrate

Robi Kurniawan, Eka Nurfani, Shibghatullah
Muhammady, Inge M. Sutjahja, Toto Winata, Andriwo
Rusydi and Yudi Darma

AIP Conference Proceedings **1725**, 020035 (2016);
<https://doi.org/10.1063/1.4945489>

SHOW ABSTRACT

1878 (2017) ✓

1883 (2017) ✓

1874 (2017) ✓

1884 (2017) ✓

1880 (2017) ✓

1877 (2017) ✓

1881 (2017) ✓

1872 (2017) ✓

1879 (2017) ✓

1876 (2017) ✓

1871 (2017) ✓

1869 (2017) ✓

1875 (2017) ✓

1870 (2017) ✓

1868 (2017) ✓

1873 (2017) ✓

1867 (2017) ✓

Full . April 2016

Removal of vertigo blue dyes from Batik textile wastewater by adsorption onto activated carbon and coal bottom ash

Kusmiyati, Puspita Adi L., Deni V., Robi Indra S., Dlia Islamica and M. Fuadi

AIP Conference Proceedings **1725**, 020036 (2016);
<https://doi.org/10.1063/1.4945490>

SHOW ABSTRACT

Full . April 2016

Modification of chitosan membranes with nanosilica particles as polymer electrolyte membranes

Ella Kusumastuti, Widasari Trisna Siniwi, F. Widhi Mahatmanti, Jumaeri, Lukman Atmaja and Nurul Widiastuti

AIP Conference Proceedings **1725**, 020037 (2016);
<https://doi.org/10.1063/1.4945491>

SHOW ABSTRACT

1864 (2017) ✓

1857 (2017) ✓

1866 (2017) ✓

1865 (2017) ✓

1863 (2017) ✓

1859 (2017) ✓

1860 (2017) ✓

1861 (2017) ✓

1862 (2017) ✓

1858 (2017) ✓

1852 (2017) ✓

1850 (2017) ✓

1854 (2017) ✓

1851 (2017) ✓

1855 (2017) ✓

1856 (2017) ✓

1853 (2017) ✓

Full . April 2016

Optimization on electrochemical synthesis of HKUST-1 as candidate catalytic material for Green diesel production

W. W. Lestari, R. E. Nugraha, I. D. Winarni, M. Adreane and F. Rahmawati

AIP Conference Proceedings **1725**, 020038 (2016);
<https://doi.org/10.1063/1.4945492>

SHOW ABSTRACT

Full . April 2016

Tensile properties of the modified 13Cr martensitic stainless steels

Efendi Mabururi, Moch. Syaiful Anwar, Siska Prifiarni, Toni B. Romijarso and Bintang Adjiantoro

AIP Conference Proceedings **1725**, 020039 (2016);
<https://doi.org/10.1063/1.4945493>

SHOW ABSTRACT

Full . April 2016

Synthesis and characterization of *Allium*

1836 (2017) ✓

1849 (2017) ✓

1841 (2017) ✓

1848 (2017) ✓

1840 (2017) ✓

1847 (2017) ✓

1832 (2017) ✓

1846 (2017) ✓

1844 (2017) ✓

1842 (2017) ✓

1845 (2017) ✓

1839 (2017) ✓

1843 (2017) ✓

1838 (2017) ✓

1837 (2017) ✓

1834 (2017) ✓

1830 (2017) ✓

***cepa* L. as photosensitizer of dye-sensitized solar cell**

Sutikno, Noverdi Afrian, Supriadi and Ngurah Made Dharma Putra

AIP Conference Proceedings **1725**, 020040 (2016);
<https://doi.org/10.1063/1.4945494>

SHOW ABSTRACT

Full . April 2016

Influence of stabilizing agent and synthesis temperature on the optical properties of silver nanoparticles as active materials in surface plasmon resonance (SPR) biosensor

Lufsyi Mahmudin, Edi Suharyadi, Agung Bambang Setio Utomo and Kamsul Abraha

AIP Conference Proceedings **1725**, 020041 (2016);
<https://doi.org/10.1063/1.4945495>

SHOW ABSTRACT

1835 (2017) ✓

1833 (2017) ✓

1831 (2017) ✓

1828 (2017) ✓

1829 (2017) ✓

1827 (2017) ✓

1824 (2017) ✓

1826 (2017) ✓

1825 (2017) ✓

1823 (2017) ✓

1821 (2017) ✓

1820 (2017) ✓

1808 (2017) ✓

1818 (2017) ✓

1812 (2017) ✓

1822 (2017) ✓

1819 (2017) ✓

Full . April 2016

Effect of sulfuric acid concentration of bentonite and calcination time of pillared bentonite

Ady Mara, Karna Wijaya, Wega Trisunaryati and Mudasir

AIP Conference Proceedings **1725**, 020042 (2016);
<https://doi.org/10.1063/1.4945496>

SHOW ABSTRACT

Full . April 2016

Effects of alkali treatment on the mechanical and thermal properties of Sansevieria trifasciata fiber

Mardiyati, Steven, Raden Reza Rizkiansyah, A. Senoaji and R. Suratman

AIP Conference Proceedings **1725**, 020043 (2016);
<https://doi.org/10.1063/1.4945497>

SHOW ABSTRACT

Full . April 2016

Optical and physical properties of PbO-modified

1816 (2017) ✓

1811 (2017) ✓

1809 (2017) ✓

1814 (2017) ✓

1810 (2017) ✓

1817 (2017) ✓

1815 (2017) ✓

1806 (2017) ✓

1813 (2017) ✓

1804 (2017) ✓

1798 (2017) ✓

1807 (2017) ✓

1805 (2017) ✓

1793 (2017) ✓

1803 (2017) ✓

1801 (2017) ✓

1800 (2017) ✓

TeO₂-ZnO-Bi₂O₃ glasses

Ahmad Marzuki, Wahyudi, Adi Pramuda and Ika Nurmalasari

AIP Conference Proceedings **1725**, 020044 (2016);
<https://doi.org/10.1063/1.4945498>

SHOW ABSTRACT

Full . April 2016

Solution of reduced graphene oxide synthesized from coconut shells and its optical properties

Kusuma Wardhani Mas'udah, I Made Ananta Nugraha, Saiful Abidin, Ali Mufid, Fahmi Astuti and Darminto

AIP Conference Proceedings **1725**, 020045 (2016);
<https://doi.org/10.1063/1.4945499>

SHOW ABSTRACT

Full . April 2016

Dielectric constant extraction of graphene nanostructured on SiC substrates from spectroscopy ellipsometry measurement using Gauss-Newton inversion method

1795 (2017) ✓

1802 (2017) ✓

1799 (2017) ✓

1794 (2017) ✓

1797 (2017) ✓

1796 (2017) ✓

1792 (2017) ✓

1788 (2017) ✓

1791 (2016) ✓

1789 (2016) ✓

1790 (2016) ✓

1785 (2016) ✓

1784 (2016) ✓

1786 (2016) ✓

1783 (2016) ✓

1787 (2016) ✓

1779 (2016) ✓

Hervin Maulina, Iman Santoso, Emmistasega
Subama, Pekik Nurwantoro, Kamsul Abraha and
Andrivo Rusydi

AIP Conference Proceedings **1725**, 020046 (2016);
<https://doi.org/10.1063/1.4945500>

SHOW ABSTRACT

Full . April 2016

The beneficial effect of superhydrophobic layer addition on lubrication behavior in bearing application

Muchammad, Mohammad Tauviqirrahman, Ariawan
Wahyu Pratomo, J. Jamari and Dirk J. Schipper

AIP Conference Proceedings **1725**, 020047 (2016);
<https://doi.org/10.1063/1.4945501>

SHOW ABSTRACT

Full . April 2016

The effect of boundary slip and cavitation on hydrodynamic pressure generation in pocket bearings

Muchammad, Mohammad Tauviqirrahman, Ariawan
Wahyu Pratomo, J. Jamari and Dirk J. Schipper

1777 (2016) ✓

1781 (2016) ✓

1778 (2016) ✓

1782 (2016) ✓

1775 (2016) ✓

1780 (2016) ✓

1776 (2016) ✓

1774 (2016) ✓

1769 (2016) ✓

1773 (2016) ✓

1772 (2016) ✓

1770 (2016) ✓

1771 (2016) ✓

1768 (2016) ✓

1767 (2016) ✓

1766 (2016) ✓

1764 (2016) ✓

AIP Conference Proceedings **1725**, 020048 (2016);
<https://doi.org/10.1063/1.4945502>

SHOW ABSTRACT

Full . April 2016

Influence of substrate orientation on the structural properties of GaAs nanowires in MOCVD

R. Muhammad, Z. Othaman, Y. Wahab, Z. Ibrahim and S. Sakrani

AIP Conference Proceedings **1725**, 020049 (2016);
<https://doi.org/10.1063/1.4945503>

SHOW ABSTRACT

Full . April 2016

Performance analysis of flexible DSSC with binder addition

Lia Muliani, Jojo Hidayat and Putri Nur Anggraini

AIP Conference Proceedings **1725**, 020050 (2016);
<https://doi.org/10.1063/1.4945504>

SHOW ABSTRACT

1763 (2016) ✓

Full . April 2016

1765 (2016) ✓

1761 (2016) ✓

1762 (2016) ✓

1759 (2016) ✓

1760 (2016) ✓

1741 (2016) ✓

Synthesis of ZnO/CuO and TiO₂/CuO nanocomposites for light and ultrasound assisted degradation of a textile dye in aqueous solution

Afifah Muzakki, Hesni Shabrany and Rosari Saleh

AIP Conference Proceedings **1725**, 020051 (2016);
<https://doi.org/10.1063/1.4945505>

SHOW ABSTRACT

1757 (2016) ✓

1758 (2016) ✓

1755 (2016) ✓

1756 (2016) ✓

1754 (2016) ✓

1753 (2016) ✓

1752 (2016) ✓

1733 (2016) ✓

1745 (2016) ✓

1740 (2016) ✓

Full . April 2016

Risk analysis for pressure vessel with external corrosion using RBI method based on API 581

Viktor Naubnome, Gunawan Dwi Haryadi, Rifky Ismail and Seon Jin Kim

AIP Conference Proceedings **1725**, 020052 (2016);
<https://doi.org/10.1063/1.4945506>

SHOW ABSTRACT

Full . April 2016

Study of electroless Ni-W-P alloy coating on martensitic

1749 (2016) ✓

1751 (2016) ✓

1750 (2016) ✓

1743 (2016) ✓

1748 (2016) ✓

1747 (2016) ✓

1746 (2016) ✓

1744 (2016) ✓

1742 (2016) ✓

1738 (2016) ✓

1737 (2016) ✓

1739 (2016) ✓

1734 (2016) ✓

1735 (2016) ✓

1731 (2016) ✓

1736 (2016) ✓

1732 (2016) ✓

stainless steel

Arini Nikitasari and Efendi Maburri

AIP Conference Proceedings **1725**, 020053 (2016);
<https://doi.org/10.1063/1.4945507>

SHOW ABSTRACT

Full . April 2016

Lithium manganese oxide (LiMn₂O₄) nanoparticles synthesized by hydrothermal method as adsorbent of lithium recovery process from geothermal fluid of Lumpur Sidoarjo

Lukman Noerochim, Gede Panca Ady Sapputra and Amien Widodo

AIP Conference Proceedings **1725**, 020054 (2016);
<https://doi.org/10.1063/1.4945508>

SHOW ABSTRACT

Full . April 2016

Risk based inspection for atmospheric storage tank

Agus Nugroho, Gunawan Dwi Haryadi, Rifky Ismail and Seon Jin Kim

1730 (2016) ✓

1728 (2016) ✓

1727 (2016) ✓

1729 (2016) ✓

1725 (2016) ^

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1726 (2016) ✓

1724 (2016) ✓

1723 (2016) ✓

1717 (2016) ✓

1722 (2016) ✓

1721 (2016) ✓

1720 (2016) ✓

1718 (2016) ✓

1719 (2016) ✓

1715 (2016) ✓

1713 (2016) ✓

AIP Conference Proceedings **1725**, 020055 (2016);
<https://doi.org/10.1063/1.4945509>

SHOW ABSTRACT

Full . April 2016

Synthesis of microforsterite using derived-amorphous-silica of silica sands

Upik Nurbaiti, Triwikantoro, Mochamad Zainuri and Suminar Pratapa

AIP Conference Proceedings **1725**, 020056 (2016);
<https://doi.org/10.1063/1.4945510>

SHOW ABSTRACT

Full . April 2016

Effect of Ta concentration on the refractive index of TiO₂:Ta studied by spectroscopic ellipsometry

Eka Nurfani, Robi Kurniawan, Shibghatullah Muhammady, Resti Marlina, Inge M. Sutjahja, Toto Winata, Andrivo Rusydi and Yudi Darma

AIP Conference Proceedings **1725**, 020057 (2016);
<https://doi.org/10.1063/1.4945511>

1716 (2016) ▼

SHOW ABSTRACT

1712 (2016) ▼

1714 (2016) ▼

1711 (2016) ▼

1707 (2016) ▼

1706 (2016) ▼

1710 (2016) ▼

1708 (2016) ▼

1709 (2016) ▼

1705 (2016) ▼

1696 (2016) ▼

1704 (2016) ▼

1701 (2016) ▼

1698 (2016) ▼

1703 (2015) ▼

1702 (2015) ▼

1697 (2015) ▼

Full . April 2016

Numerical analysis of tire/contact pressure using finite element method

Sarwo Edy Pranoto, Royan Hidayat, Mohammad
Tauviqirrahman and Athanasius P. Bayuseno

AIP Conference Proceedings **1725**, 020058 (2016);
<https://doi.org/10.1063/1.4945512>

SHOW ABSTRACT

Full . April 2016

Prediction of 3D chip formation in the facing cutting with lathe machine using FEM

Yudhi Prasetyo, Mohamad Tauviqirrahman and
Rusnaldy

AIP Conference Proceedings **1725**, 020059 (2016);
<https://doi.org/10.1063/1.4945513>

SHOW ABSTRACT

Full . April 2016

1699 (2015) ✓

1700 (2015) ✓

1692 (2015) ✓

1695 (2015) ✓

1693 (2015) ✓

1691 (2015) ✓

1689 (2015) ✓

1694 (2015) ✓

1687 (2015) ✓

1690 (2015) ✓

1688 (2015) ✓

1686 (2015) ✓

1685 (2015) ✓

1684 (2015) ✓

1683 (2015) ✓

1682 (2015) ✓

1681 (2015) ✓

Tribological characteristic enhancement effects by polymer thickened oil in lubricated sliding contacts

Ariawan Wahyu Pratomo, Muchammad, Mohammad Tauviqirrahman, Jamari and Athanasius P. Bayuseno

AIP Conference Proceedings **1725**, 020060 (2016);
<https://doi.org/10.1063/1.4945514>

SHOW ABSTRACT

Full . April 2016

Application of Taguchi technique coupled with grey relational analysis for multiple performance characteristics optimization of EDM parameters on ST 42 steel

Galang Sandy Prayogo and Nuraini Lusi

AIP Conference Proceedings **1725**, 020061 (2016);
<https://doi.org/10.1063/1.4945515>

SHOW ABSTRACT

Full . April 2016

Risk analysis of heat recovery steam generator with semi

1680 (2015) ✓

1677 (2015) ✓

1679 (2015) ✓

1678 (2015) ✓

1676 (2015) ✓

1675 (2015) ✓

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quantitative risk based inspection API 581

Galang Sandy Prayogo, Gunawan Dwi Haryadi, Rifky Ismail and Seon Jin Kim

AIP Conference Proceedings **1725**, 020062 (2016);
<https://doi.org/10.1063/1.4945516>

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Full . April 2016

Nano-sized ZnO powders prepared by co-precipitation method with various pH

S. Y. Purwaningsih, S. Pratapa, Triwikantoro and Darminto

AIP Conference Proceedings **1725**, 020063 (2016);
<https://doi.org/10.1063/1.4945517>

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Full . April 2016

Scanning transmission electron microscopy (STEM) study on surface modified CVD diamond/Si(111) film post implanted Fe-B and NiFe-B related to GMR properties

Setyo Purwanto, R. Iskandar and A. Dimiyati

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AIP Conference Proceedings **1725**, 020064 (2016);
<https://doi.org/10.1063/1.4945518>

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Full . April 2016

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The influence of PEG-4000 and silica on crystal structure and magnetic properties of magnesium ferrite (MgFe₂O₄) nanoparticles

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Deska Lismawenning Puspitarum, Agung Hermawan
and Edi Suharyadi

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AIP Conference Proceedings **1725**, 020065 (2016);
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Full . April 2016

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Effect of tartaric acid (C₄H₆O₆) and temperatures on induction time and variation of crystal phases of CaCO₃ in a piping system

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W. A. Putranto, Y. Usmany, A. P. Bayuseno and S.
Muryanto

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AIP Conference Proceedings **1725**, 020066 (2016);

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The influence of electron discharge and magnetic field on calcium carbonate (CaCO₃) precipitation

Triswanoro Putro and Endarko

AIP Conference Proceedings **1725**, 020067 (2016);<https://doi.org/10.1063/1.4945521>

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Influence Al doped ZnO nanostructure on structural and optical properties

Ari Handono Ramelan, Sayekti Wahyuningsih,
Uswatul Chasanah and Hanik MunawarohAIP Conference Proceedings **1725**, 020068 (2016);<https://doi.org/10.1063/1.4945522>

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Full . April 2016

The result of synthesis analysis of the powder TiO₂/ZnO as a layer of electrodes for dye sensitized solar cell applications

Lilis Retnaningsih and Lia Muliani

AIP Conference Proceedings **1725**, 020069 (2016);
<https://doi.org/10.1063/1.4945523>

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Full . April 2016

Impact of methanol-gasoline fuel blend on the fuel consumption and exhaust emission of a SI engine

Mohamad Rifal and Nazaruddin Sinaga

AIP Conference Proceedings **1725**, 020070 (2016);
<https://doi.org/10.1063/1.4945524>

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Full . April 2016

Crystallinity and thermal resistance of microcrystalline

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1601 (2014) ✓

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1600 (2014) ✓

1599 (2014) ✓

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cellulose prepared from manau rattan (*Calamusmanan*)

Raden Reza Rizkiansyah, Mardiyati, Steven and R.
Suratman

AIP Conference Proceedings **1725**, 020071 (2016);
<https://doi.org/10.1063/1.4945525>

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Full . April 2016

Internal transmission coefficient in charges carrier generation layer of graphene/Si based solar cell device

Ahmad Rosikhin and Toto Winata

AIP Conference Proceedings **1725**, 020072 (2016);
<https://doi.org/10.1063/1.4945526>

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Full . April 2016

Preliminary study of application of *Moringa oleifera* resin as polymer electrolyte in DSSC solar cells

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Sahrul Saehana, Darsikin and Muslimin

AIP Conference Proceedings **1725**, 020073 (2016);
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Full . April 2016

Finite element analysis of the impingement on the acetabular liner rim due to wear of the acetabular liner surface

Eko Saputra, Iwan Budiwan Anwar, Rifky Ismail, J. Jamari and Emile van der Heide

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<https://doi.org/10.1063/1.4945528>

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Full . April 2016

Finite element study of contact pressure distribution on inner and outer liner in the bipolar hip prosthesis

Eko Saputra, Iwan Budiwan Anwar, Rifky Ismail, J. Jamari and Emile van der Heide

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Full . April 2016

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Optimalization activity of ZnO NR/TiO₂ NR-P3HT as an active layer based on hybrid bulk heterojunction on dye sensitized solar cell (DSSC)

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Liya Nikmatul Maula Zulfa Saputri, Ari Handono Ramelan, Qonita Awliya Hanif, Yesi Ihdina Fityatal Hasanah, Lau Bekti Prajanira and Sayekti Wahyuningsih

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AIP Conference Proceedings **1725**, 020076 (2016);
<https://doi.org/10.1063/1.4945530>

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Enhanced salt-removal percentage in capacitive deionization with addition of ion-exchange membrane using carbon electrode synthesized with freezing thawing method

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Intan Permata Sari and Endarko

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AIP Conference Proceedings **1725**, 020077 (2016);
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Full . April 2016

A numerical investigation on mechanical property improvement of styrene butadiene rubber by static straight blade indentation

B. Setiyana, R. Ismail, J. Jamari and D. J. Schipper

AIP Conference Proceedings **1725**, 020078 (2016);
<https://doi.org/10.1063/1.4945532>

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Full . April 2016

Crystal structures and magnetic properties of polyethylene glycol (PEG-4000) and silica-encapsulated nickel ferrite (NiFe₂O₄) nanoparticles

Siti Shofiah, Muflihatun and Edi Suharyadi

AIP Conference Proceedings **1725**, 020079 (2016);

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Synthesis of PDLLA/PLLA-bentonite nanocomposite through sonication

Johnner Sitompul, Daru Setyawan, Daniel Young
Joon Kim and Hyung Woo Lee

AIP Conference Proceedings **1725**, 020080 (2016);
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Bio-composites fabricated by sandwiching sisal fibers with polypropylene (PP)

H. Sosiati, A. Nahyudin, I. Fauzi, D. A. Wijayanti and
K. Triyana

AIP Conference Proceedings **1725**, 020081 (2016);
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Full . April 2016

The annealing temperature dependences of microstructures and magnetic properties in electro-chemical deposited CoNiFe thin films

Edi Suharyadi, Agus Riyanto and Kamsul Abraha

AIP Conference Proceedings **1725**, 020082 (2016);
<https://doi.org/10.1063/1.4945536>

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Full . April 2016

The influence of nickel slag aggregate concentration to compressive and flexural strength on fly ash-based geopolymer composite

E. H. Sujiono, A. Setiawan, H. Husain, A. Irhamsyah, S. Samnur and S. Subaer

AIP Conference Proceedings **1725**, 020083 (2016);
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Full . April 2016

Fabrication of porous carbon

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composite material from leaves waste as lightweight expanded carbon aggregate (LECA)

Sulhadi, N. Rosita, Susanto, K. Nisa', P. A. Wiguna, P. Marwoto and M. P. Aji

AIP Conference Proceedings **1725**, 020084 (2016);
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Amidation reaction of eugenyl oxyacetate ethyl ester with 1,3 diaminopropane

V. Suryanti, F. R. Wibowo, T. Kusumaningsih, A. H. Wibowo, S. A. Khumaidah and L. A. Wijayanti

AIP Conference Proceedings **1725**, 020085 (2016);
<https://doi.org/10.1063/1.4945539>

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Full . April 2016

Autist mobile seat's frame strength simulation used in a car

S. H. Suryo, J. Jamari, G. K. Naufal, R. Ismail, A. P. Bayuseno and D. R. Desiningrum

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Impact of post-treatment on the characteristics of electrospun poly (vinyl alcohol)/chitosan nanofibers

H. Susanto, A. M. Samsudin, M. W. Faz and M. P. H. Rani

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Comparison of catalytic activities for photocatalytic and sonocatalytic degradation of organic dye in the presence of ternary Fe₃O₄/ZnO/CuO magnetic heterogenous nanocatalyst

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Full . April 2016

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**Synergy effect in
sonodegradation of organic
dye using graphene based
magnetite composite
materials**

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Ardiansyah Taufik and Rosari Saleh

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AIP Conference Proceedings **1725**, 020089 (2016);

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Full . April 2016

Estimation of appropriate lubricating film thickness in ceramic-on-ceramic hip prostheses

M. Tauviquirrahman, Muchammad, A. P. Bayuseno, R. Ismail, E. Saputra and J. Jamari

AIP Conference Proceedings **1725**, 020090 (2016);
<https://doi.org/10.1063/1.4945544>

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Full . April 2016

Influence of superoleophobic layer on the lubrication performance of partially textured bearing including cavitation

M. Tauviquirrahman, A. P. Bayuseno, Muchammad and J. Jamari

AIP Conference Proceedings **1725**, 020091 (2016);
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Full . April 2016

Chloride ion addition for

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1424 (2012) ✓

controlling shapes and properties of silver nanorods capped by polyvinyl alcohol synthesized by polyol method

Junaidi, Kuwat Triyana, Harsojo and Edi Suharyadi

AIP Conference Proceedings **1725**, 020092 (2016);

<https://doi.org/10.1063/1.4945546>

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Full . April 2016

Crystallization of calcium carbonate (CaCO₃) in a flowing system: Influence of Cu²⁺ additives on induction time and crystalline phase transformation

Y. Usmany, W. A. Putranto, A. P. Bayuseno and S. Muryanto

AIP Conference Proceedings **1725**, 020093 (2016);

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Full . April 2016

The influence of hydrothermal temperature and time toward

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crystallinity of zeolite X supported on glass wool for CO₂ adsorption

R. K. Wardani Anggita, V. T. P. Yuniar, W. T. Aini and W. Nurul

AIP Conference Proceedings **1725**, 020094 (2016);
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Full . April 2016

Microstructure analysis in friction welding of copper and aluminum

A. G. Wahyu Wibowo, Rifky Ismail and J. Jamari

AIP Conference Proceedings **1725**, 020095 (2016);
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Full . April 2016

Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers

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Eri Widiyanto, Vita Efelina, Dadi Rusdiana, A. A. Nugroho, Ahmad Kusumaatmaja, Kuwat Triyana and Iman Santoso

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Full . April 2016

Synthesis of kerosene based nanocarbons by a nebulized spray pyrolysis method

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AIP Conference Proceedings **1725**, 020097 (2016);
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Full . April 2016

Physical characteristics and magnetic properties of BaFe₁₂O₁₉/SrTiO₃ based composites derived from mechanical alloying

Rahmat Doni Widodo and Azwar Manaf

AIP Conference Proceedings **1725**, 020098 (2016);

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Full . April 2016

Effect of calcination temperature on the photocatalytic activity of TiO₂ powders prepared by co-precipitation of TiCl₃

Gatut Yudoyono, Nur Ichzan, Vicran Zharvan, Rizqa Daniyati, Hadi Santoso, Bachtera Indarto, Yono Hadi Pramono, Mochamad Zainuri and Darminto

AIP Conference Proceedings **1725**, 020099 (2016);
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1383 (2011) ✓

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Full . April 2016

Enhancement of iron content in spinach plants stimulated by magnetic nano particles

Agus Yulianto, Budi Astuti and Saptaria Rosa Amalia

AIP Conference Proceedings **1725**, 020100 (2016);
<https://doi.org/10.1063/1.4945554>

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Full . April 2016

Infrared and Raman studies on polylactide acid and polyethylene glycol-400 blend

Kurniawan Yuniarto, Yohanes Aris Purwanto, Setyo Purwanto, Bruce A. Welt, Hadi Karia Purwadaria and Titi Candra Sunarti

AIP Conference Proceedings **1725**, 020101 (2016);
<https://doi.org/10.1063/1.4945555>

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Full . April 2016

Synthesis of strontium substituted barium titanate nanoparticles by mechanical alloying and high power

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ultrasonication destruction

Erlina Yustanti, Mas Ayu Elita Hafizah and Azwar Manaf

AIP Conference Proceedings **1725**, 020102 (2016);
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Full . April 2016

Optical properties of planar nematic liquid crystals samples which are parallel oriented by nanofibers

Yusril Yusuf, Ervaggis Minggar Kusumasari, Nur Mufidatul Ula, Khannah Jahidah, Kuwat Triyana, Harini Sosiati and Harsojo

AIP Conference Proceedings **1725**, 020103 (2016);
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SHOW ABSTRACT

Full . April 2016

Study of parallel oriented electrospun *polyvinyl alcohol* (PVA) nanofibers using modified electrospinning method

Yusril Yusuf, Nur Mufidatul Ula, Khannah Jahidah,

1355 (2011)	▼	Ervanggis Minggar Kusumasari, Kuwat Triyana, Harini Sosiati and Harsojo
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